

FIG. 1a
(PRIOR ART)

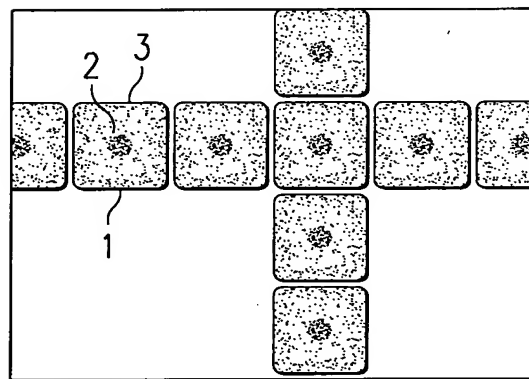


FIG. 1b
(PRIOR ART)

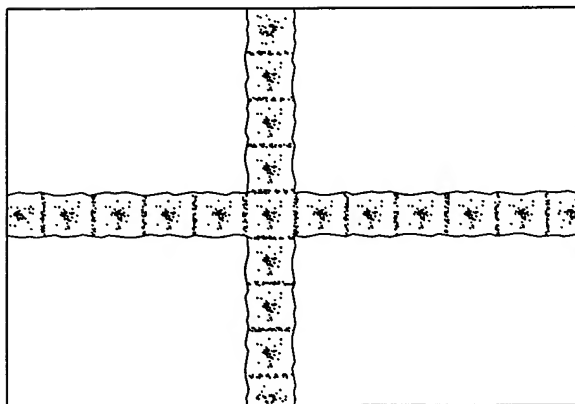


FIG. 2
(PRIOR ART)

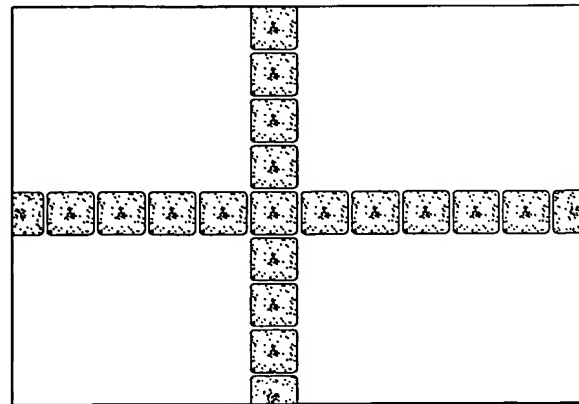


FIG. 3
(PRIOR ART)

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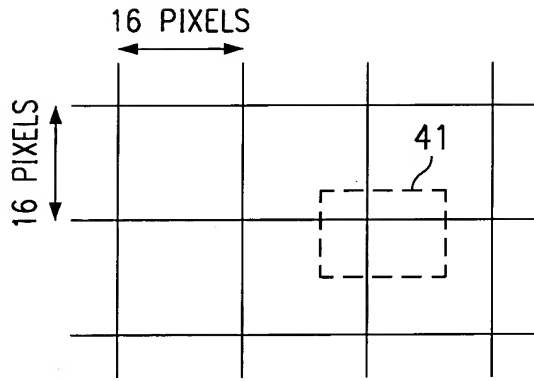


FIG. 4a

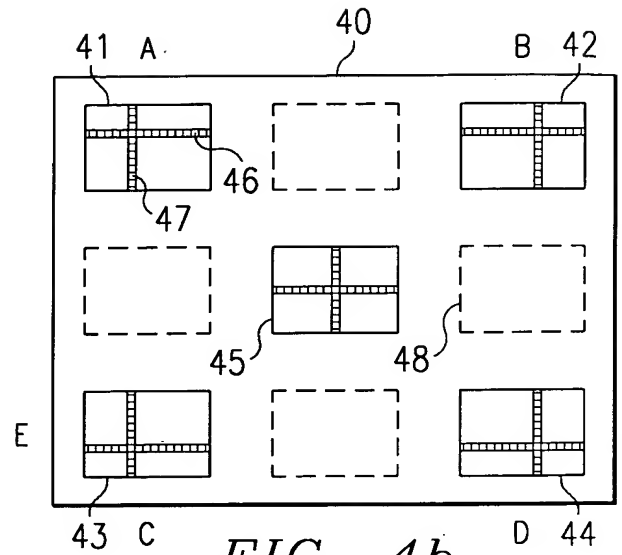


FIG. 4b

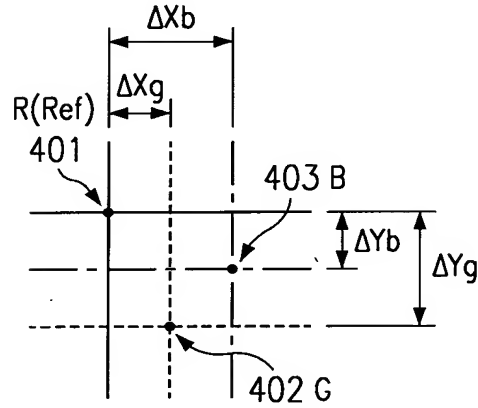


FIG. 4c

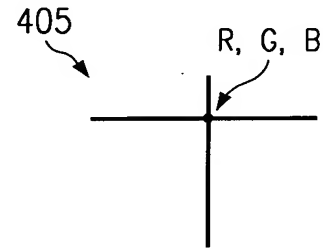


FIG. 4d

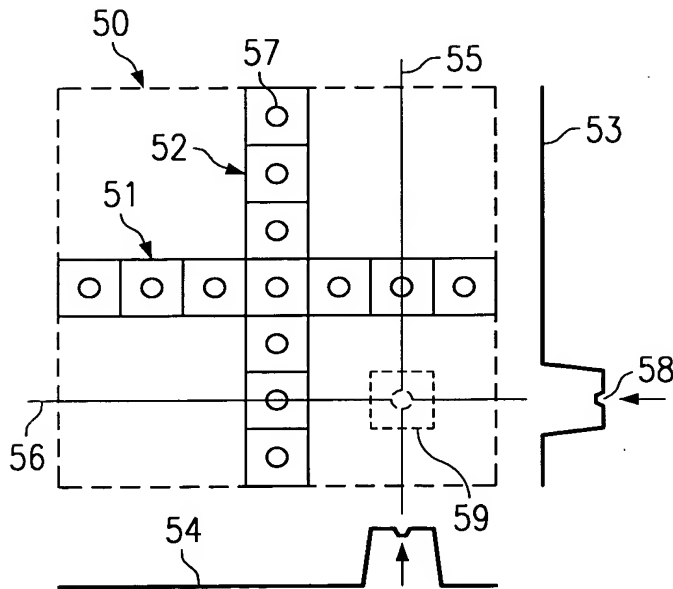


FIG. 5

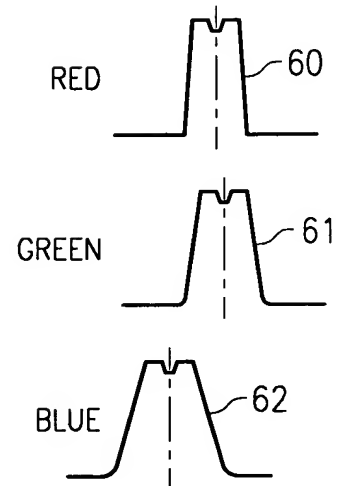


FIG. 6

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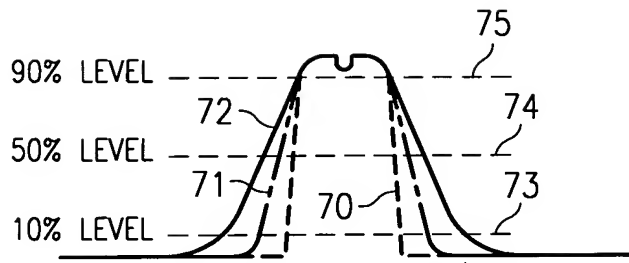


FIG. 7

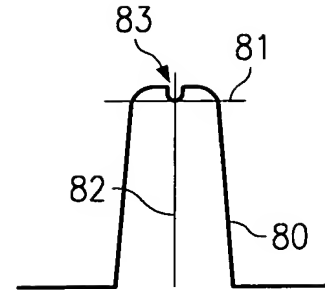


FIG. 8a

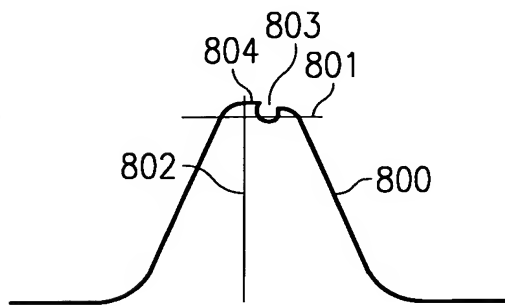


FIG. 8b

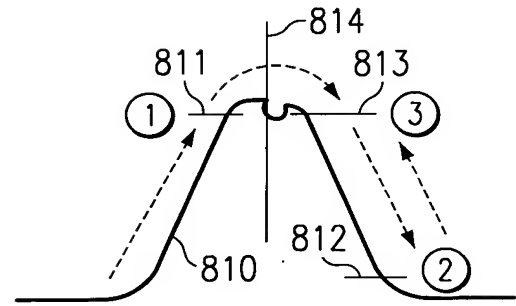


FIG. 8c

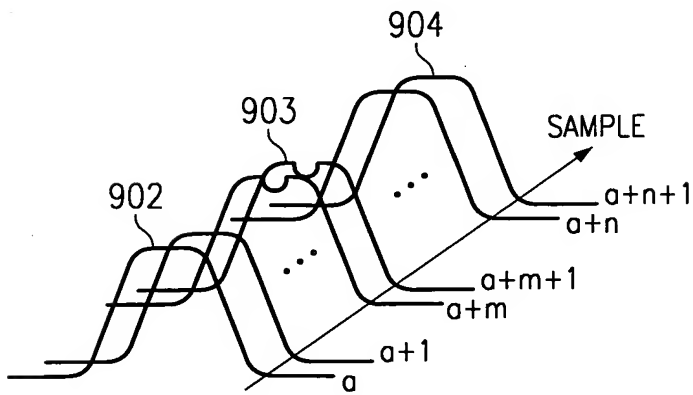


FIG. 9a

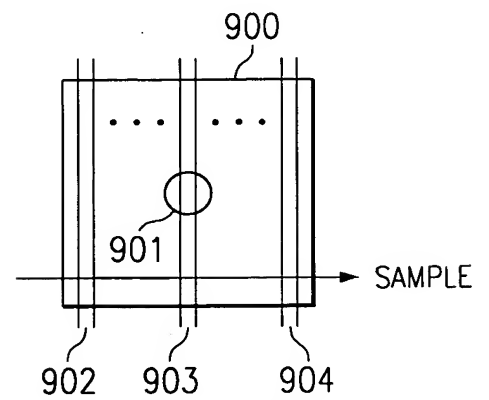


FIG. 9b

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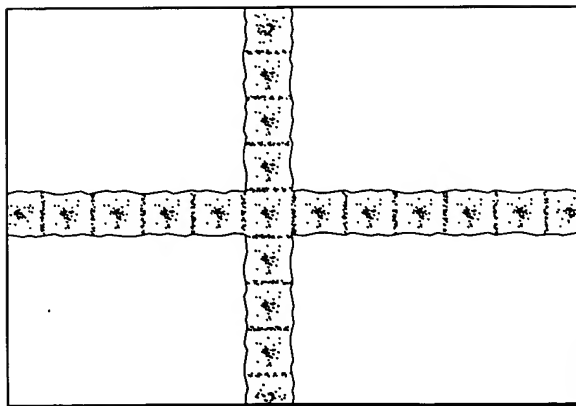
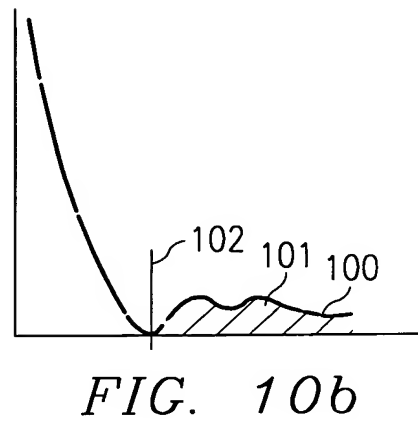
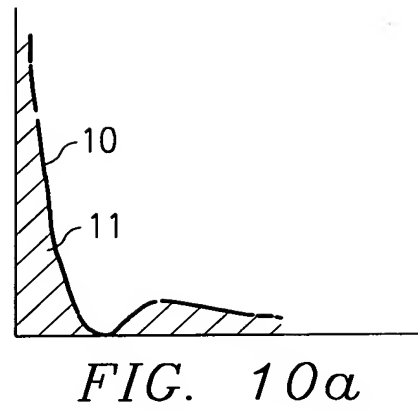
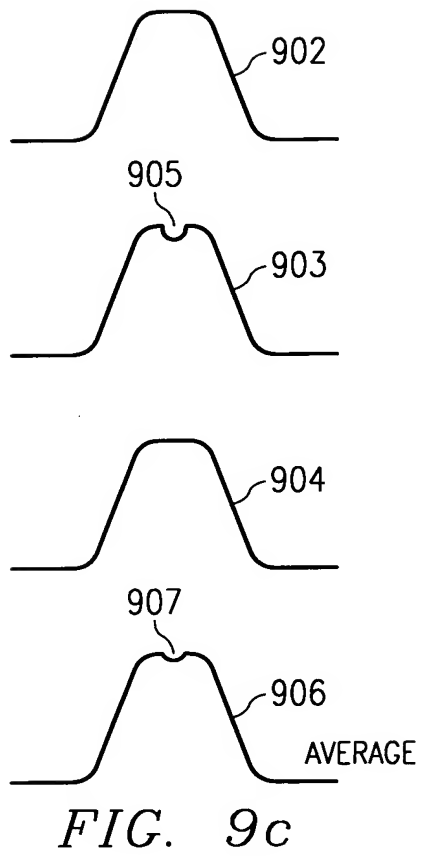


FIG. 11a

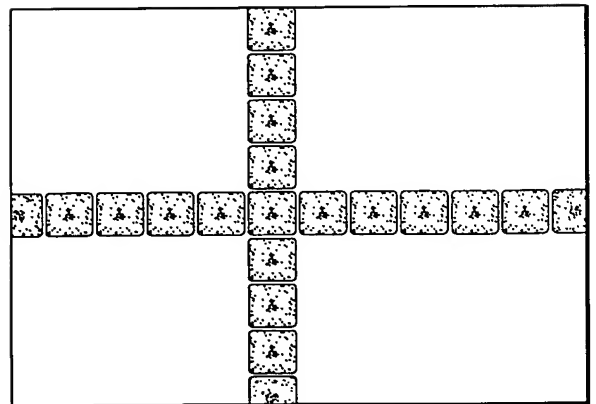


FIG. 11b

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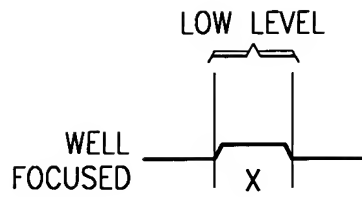


FIG. 12a

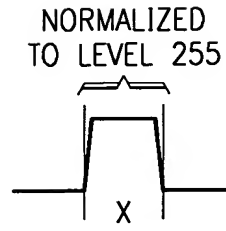


FIG. 12c

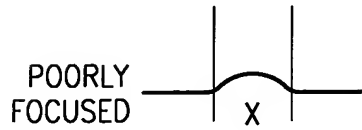


FIG. 12b

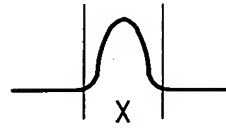


FIG. 12d

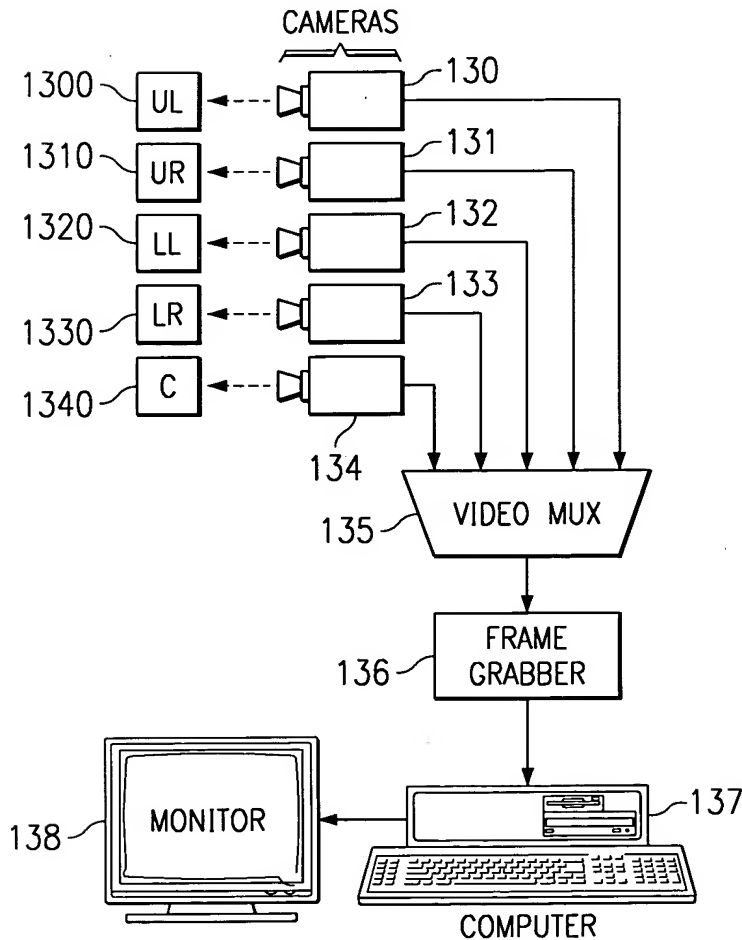


FIG. 13a

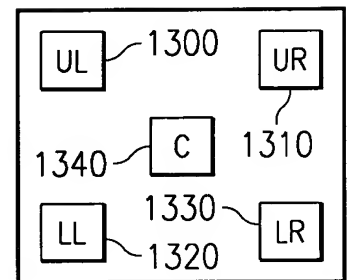
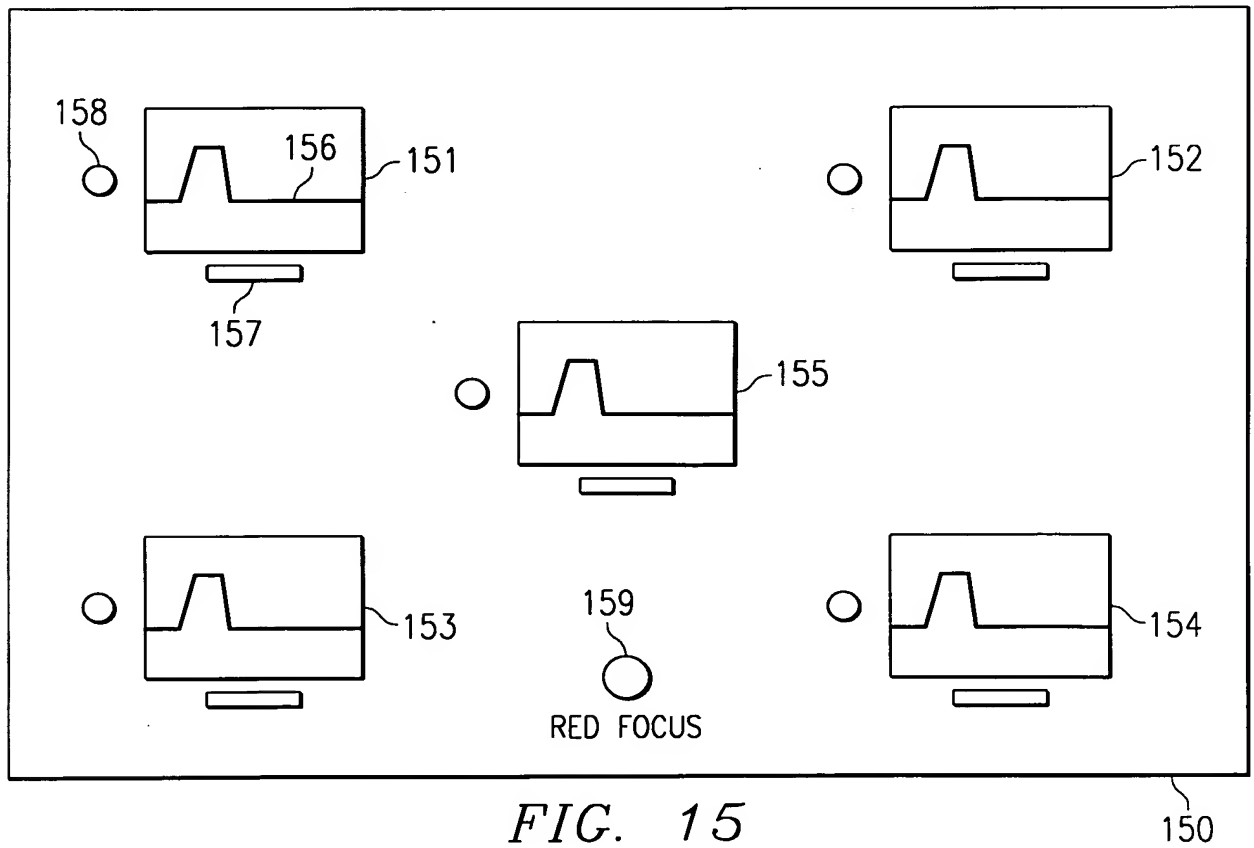
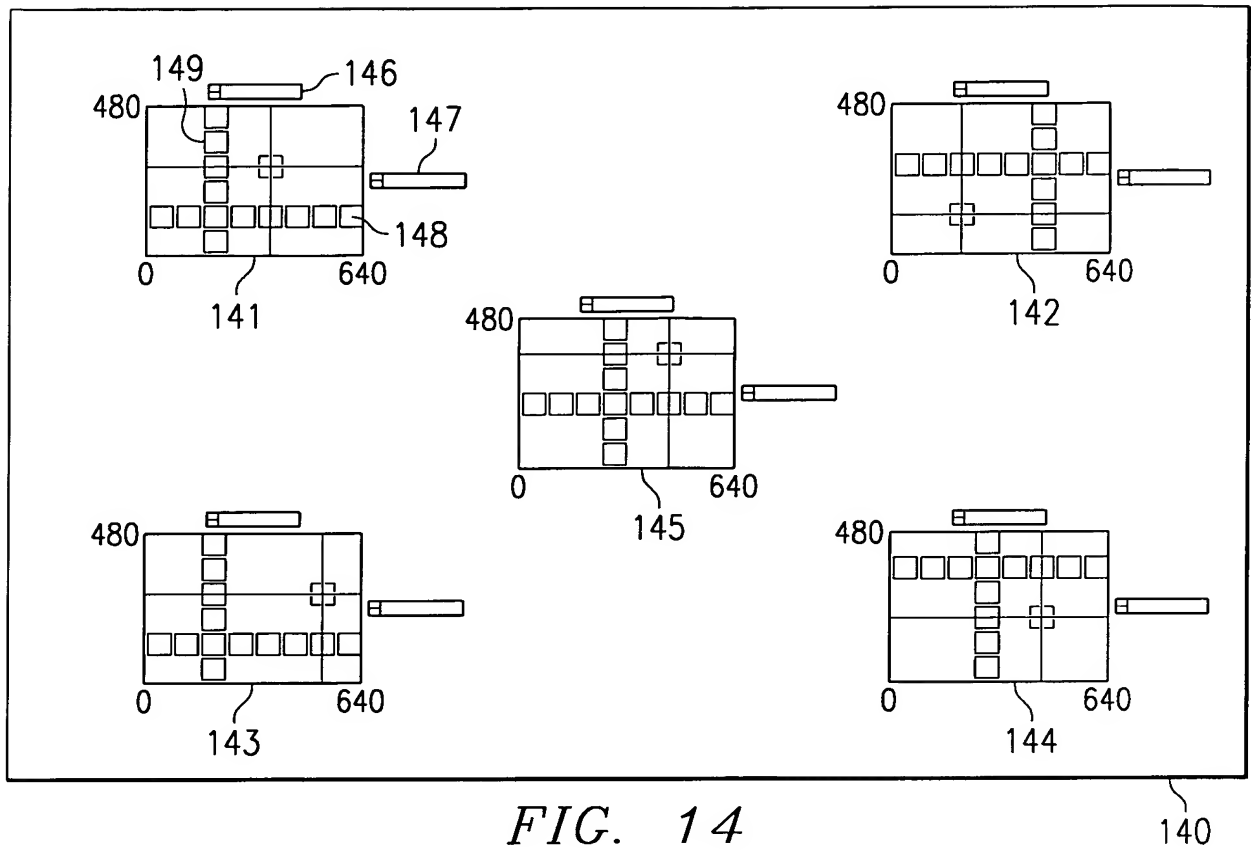
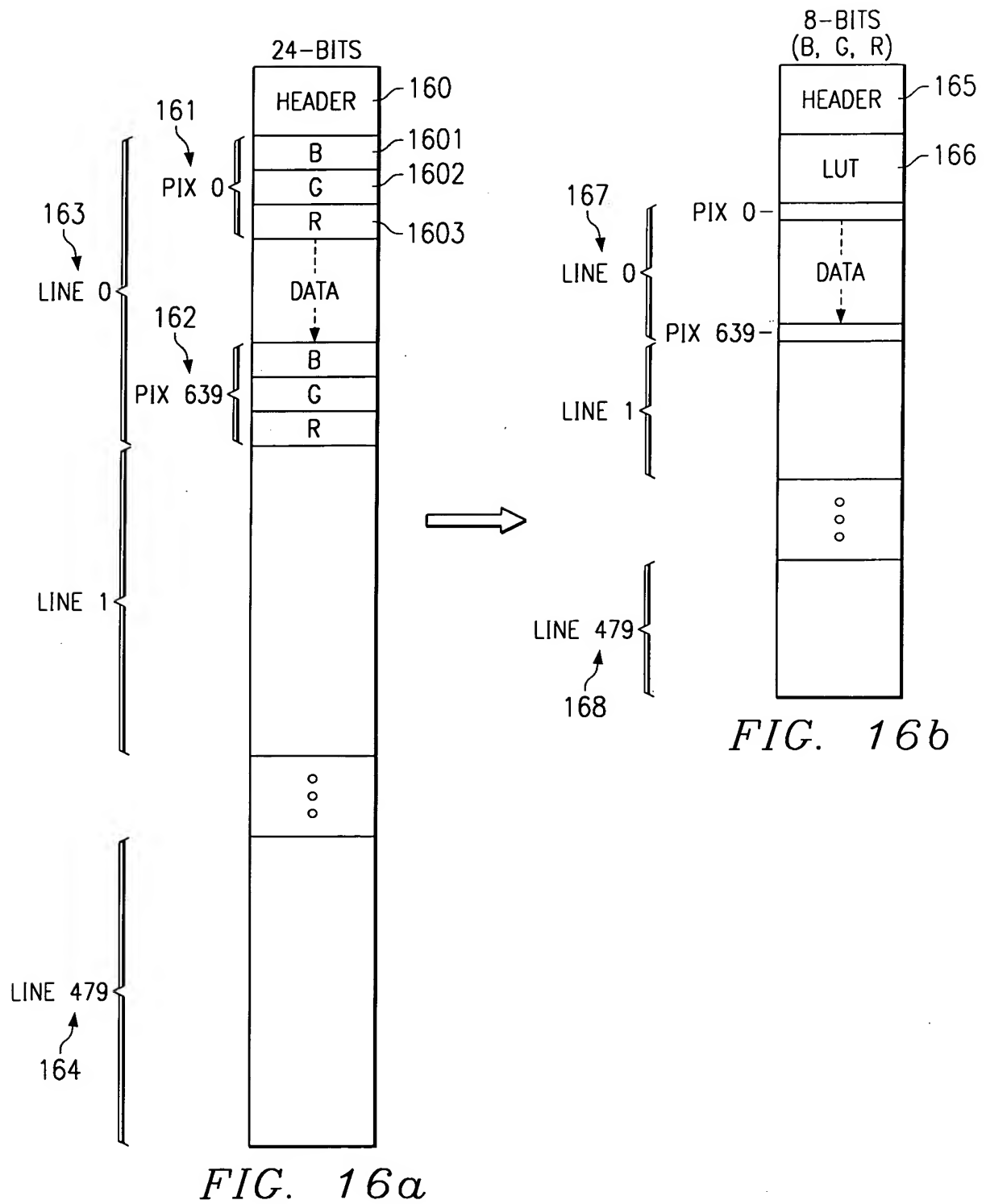


FIG. 13b

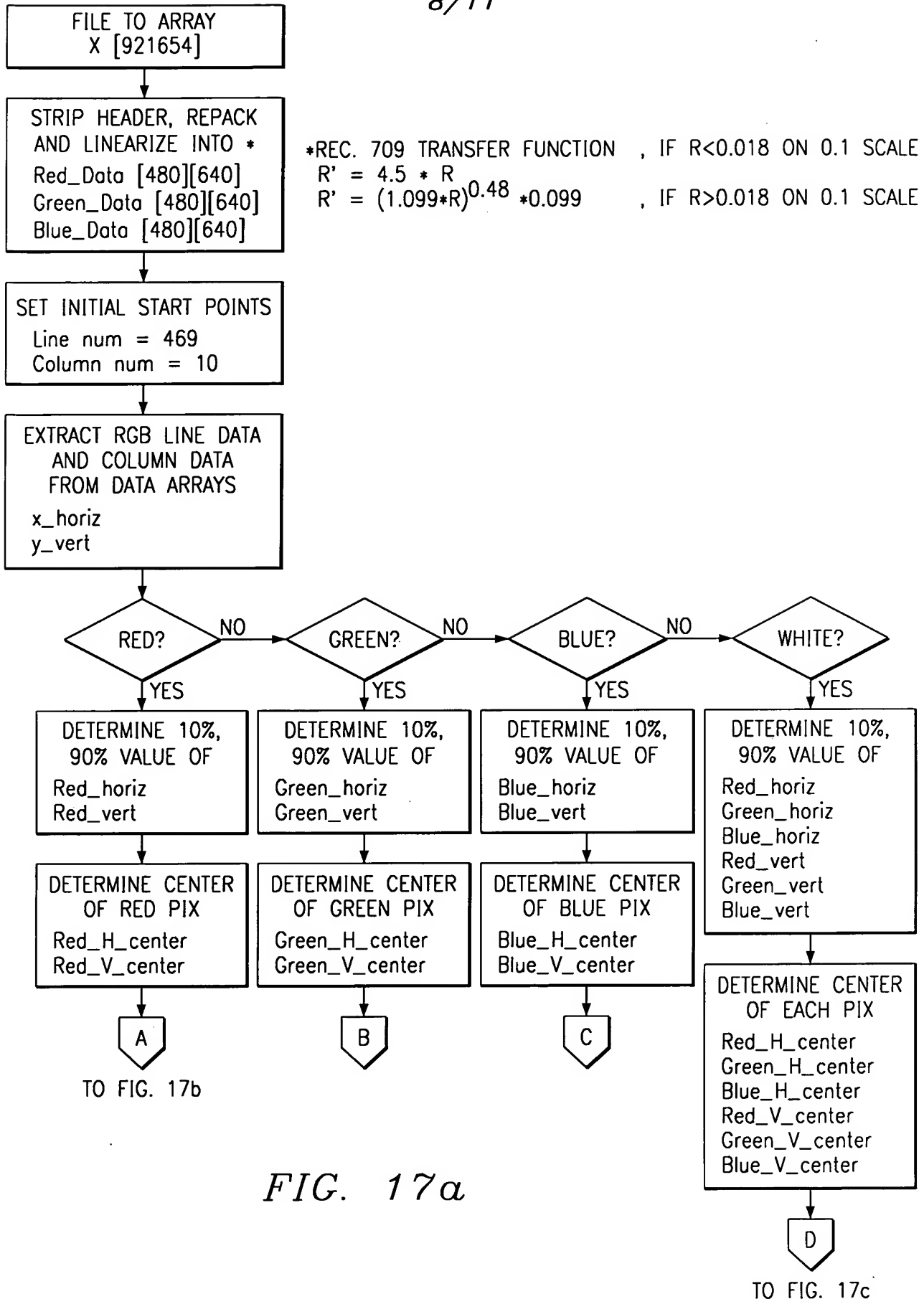
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FROM FIG. 17a



(SAME FOR GREEN AND BLUE ARRAYS)

ESTABLISH UPPER AND LOWER LIMITS FOR AVERAGING
Linum_upper, Red_V_center + (0.25 * Red_V-width)
Linum_lower, Red_V_center - (0.25 * Red_V-width)
Colnum_upper, Red_H_center + (0.25 * Red_H-width)
Colnum_lower, Red_H_center - (0.25 * Red_H-width)

INITIALIZE AVERAGE RED LINE TO ZERO

AVERAGE WAVEFORM OVER HALF PIX

NORMALIZE MAXIMUM AMPLITUDE TO 255

PERFORM MOVING AVERAGE OF 10
SAMPLES TO REDUCE NOISE COMPONENT

SET AVERAGE VALUE TO 127

PERFORM SINGLE-SIDED,
SCALED POWER SPECTRUM OF WAVEFORM
OF ADJUSTED RED AVERAGE LINE
$$\frac{\text{FFT}(x)\text{FFT}^*(x)}{n^2}$$

* COMPLEX CONJUGATE
n NUMBER OF POINTS
IN ARRAY x

DETERMINE MAXIMUM/MINIMUM
OF RESULTING AVERAGE

FIND FIRST MINIMA OF ARRAY

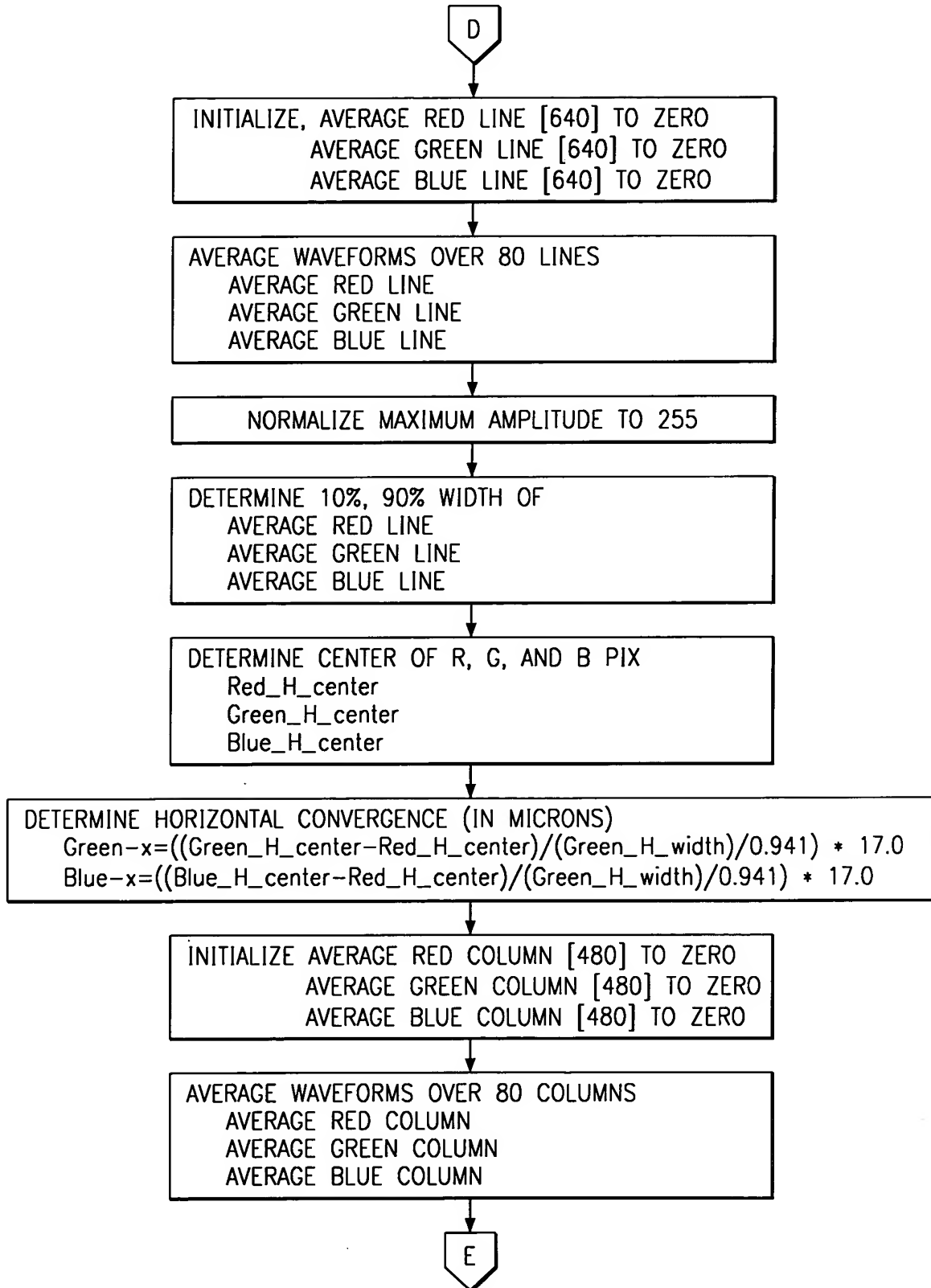


TO FIG. 17e

FIG. 17b

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FROM FIG. 17a



TO FIG. 17d

FIG. 17c

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FROM FIG. 17c

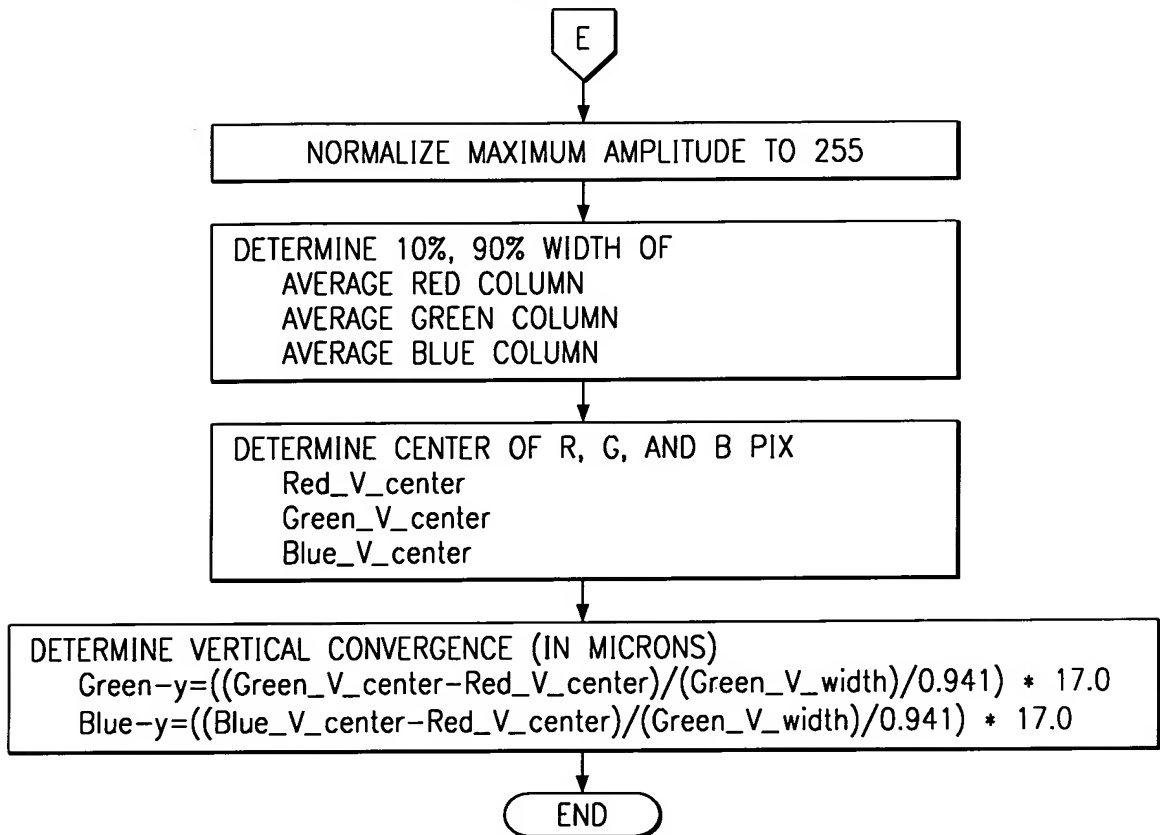


FIG. 17d

FROM FIG. 17b

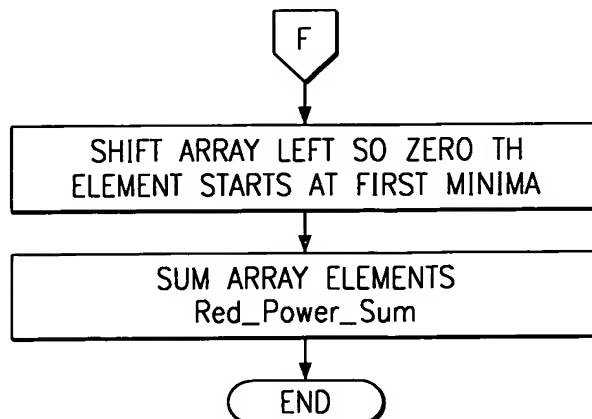


FIG. 17e